

EMILY V. W. SETTON
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DEPARTMENT OF INTEGRATIVE BIOLOGY
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EDUCATION

Ph.D. in progress	University of Wisconsin-Madison Integrative Biology	2018-present
B.S.	University of Wisconsin-Madison Biology, Anthropology	2017

RESEARCH AND EMPLOYMENT

RESEARCH

2018-present	Ph.D. student, Sharma Lab (Integrative Biology)
2015-2017	Undergraduate research assistant, Sharma Lab (Integrative Biology)
2015	Undergraduate research assistant, Hawks Lab (Anthropology)

DEPARTMENTAL EMPLOYMENT

2014-2017	Zoology 102 student hourly <i>Duties: Laboratory set up, take down, and maintenance; stockroom and specimen inventory; data entry; copying</i>
2013-2014	Zoology office student hourly <i>Duties: Evolutionary biology hiring project, data entry, invoice reconciliation, copying, filing, mail and package delivery</i>

EXTRAMURAL EMPLOYMENT

2009-present	Private instructor in Hunter/Jumper style horseback riding
2015-present	Shift leader, Regent Street Cooperative
2007-2018	United States Pony Club instructor (lectures, symposia, and mounted instruction)
2014-2017	Chair and coordinator, Lake Shore Region Junior Board (volunteer)
2012-2015	Summer working student and equine caretaker, Meadowbrook Farm

AWARDS AND HONORS

ACADEMIC

- 2019 2019 Graduate Research Fellowship awardee, National Science Foundation, three years beginning Fall 2019
- 2019 Best student poster in “Morphology, Physiology, and Silk.” First prize. 21st International Congress of Arachnology 2019, Lincoln, New Zealand
- 2018 AAAS/Science Program for Excellence in Science award recipient (sponsored membership)
- 2018 University of Wisconsin—Madison Department of Integrative Biology’s John Jefferson Davis student travel award for conference attendance
- 2018 National Science Foundation (NSF) student travel grant for the Third Global Invertebrate Genomics Alliance Conference and Workshop (GIGA III) 2018, Willemstad, Curacao
- 2018 American Arachnological Society’s Arachnological Research Fund Student Research Grant.
- 2018 Charlotte Mangum Student Support Program Award, SICB Annual Meeting 2018, San Francisco, CA
- 2016 Laudier Histology Student Travel Award, 20th International Congress of Arachnology 2016, Golden, CO
- 2015 Biology 152 grant to print research poster, UW-Madison
- 2013 Graduation *summa cum laude*, Neenah High School, Neenah, WI

EXTRAMURAL

- 2016 USPC Lakeshore Region Upper Level Prep Scholarship
- 2016 USPC Lakeshore Region Show Jumping Scholarship
- 2015 USPC National Youth Congress Delegate
- 2014 USPC Lakeshore Region Show Jumping Scholarship

PUBLICATIONS

4. **Setton, E.V.W.**, Hendrixson, B.E. & Sharma, P.P. (in press) Embryogenesis in a Colorado population of *Aphonopelma hentzi* (Girard, 1852) (Araneae, Mygalomorphae, Theraphosidae): establishing a promising system for the study of mygalomorph development. *Journal of Arachnology*.
3. †March, L.E., †Smaby, R.M., †**Setton, E.V.W.** & Sharma, P.P. (2018) The evolution of selector gene function: Expression dynamics and regulatory interactions of tiptop/teashirt across Arthropoda. *Evolution & Development*. 20:219-232.
2. †**Setton, E.V.W.** & Sharma, P.P. (2018) Cooption of an appendage patterning gene cassette in the head segmentation of arachnids. *Proceedings of the National Academy of Sciences of the USA* 115: E3491-E3500.
1. †**Setton, E.V.W.**, †March, L.E., †Nolan, E.D., Jones, T.E., Cho, H., Wheeler, W.C., Extavour, C.G. & Sharma, P.P. (2017) Expression and function of spineless orthologs correlate with distal

deutocerebral appendage morphology in Arthropoda. *Developmental Biology* 430: 224–236.

†Undergraduate co-author.

PRESENTATIONS

CONFERENCE PRESENTATIONS

- 2019 21st International Congress of Arachnology, Canterbury, New Zealand (one talk, one poster)
- 2018 Global Invertebrate Genomics Alliance Third Annual Conference and Workshop, Willemstad, Curacao (one talk)
- 2018 Annual Meeting of the Society of Integrative & Comparative Biology, San Francisco, CA (one talk)
- 2017 Annual Meeting of the Society of Integrative & Comparative Biology, New Orleans, LA (one talk, one poster)
- 2016 20th International Congress of Arachnology, Golden, CO (one talk)
- 2015 Biology 152 Research Poster Fair (one poster)

SERVICE AND OUTREACH

SOCIETY MEMBERSHIPS

- 2018-present American Society of Arachnology (student member)
- 2018-present American Association for the Advancement of Science (AAAS) / Science (sponsored)
- 2016-present International Society of Arachnology (student member)
- 2016-present Society of Integrative and Comparative Biology (student member)

OUTREACH

- 2019 Sharma Lab organizer for bringing AP Biology Students at Reedsburg Area High School to UW-Madison for a “day in the lab.” (scheduled)
- 2019 Sharma Lab organizer for visiting students at Centro Hispano’s “Juventud” after school program, Toki Middle School, Madison, WI (scheduled)
- 2018-present Sharma Lab organizer for University of Wisconsin—Madison’s Darwin Day outreach event for elementary school children
- 2017 Guest lecturer to AP Biology students on evo-devo and undergraduate research, Reedsburg Area High School, Reedsburg, WI
- 2016-present Assistant for Fourth Tuesday Club (faculty dinner and STEM-field guest lecture), University of Wisconsin—Madison, Madison, WI

FIELD EXPERIENCE

COLLECTING TRIPS

2018

La Junta, Colorado, USA (12 days)